

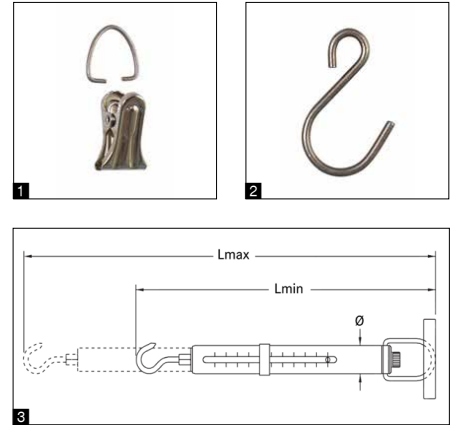
Spring Balances SAUTER 287 · 289



SAUTER 289



SAUTER 287



Mechanical weight and force measurement with quality spring for long service life

Features

- The very best price/performance ratio thanks to the transparent plastic housing, ideal for schools and educational institutions
- Newton scale: The SAUTER 289 range can display the results in Newtons instead of in grammes, specifically for measuring tensile forces
- Double scale: For fast or precise recording of the measurement result
- High precision: Backlash-free spring bearing with integrated tare screw for highly-precise adjustment
- Non-fatigue stainless steel spring
- Abrasion-resistant, colour precision scale with high resolution

- Thanks to the rotating inner tube, the scale is always easy to read
- The bracket which is delivered as standard can easily be swapped for another suspension device, so that the system can be individually adapted to the items being weighed

Technical data

- Measuring precision: $\pm 0,3\%$ of [Max]
- Tare range: 20 % of [Max]

Accessories

- **1** Bracket for spring balances of 10 – 1000 g / 0,1 – 10 N, SAUTER 287-A01
- **2** Hook for spring balances 10 – 1000 g/0,1 – 10 N, SAUTER 287-A02

STANDARD

OPTION



Model	Measuring range [Max] N	Division [d] N	Load support	3 Dimensions			Option Factory calibration certificate
				Lmin	Lmax	Ø	
SAUTER				mm	mm	mm	KERN
289-100	1	0,01 0,05	Hook	230	335	12,2	961-1610
289-102	5	0,05 0,5	Hook	230	335	12,2	961-1610
289-104	10	0,1 0,5	Hook	235	335	12,2	961-1610

Modell	Weighing range [Max] N	Division [d] N	Load support	3 Dimensions			Option Factory calibration certificate
				Lmin	Lmax	Ø	
SAUTER				mm	mm	mm	KERN
287-100	10	0,1	Clip	225	330	12,2	961-100
287-102	20	0,2	Clip	225	330	12,2	961-100
287-104	50	0,5	Clip	225	330	12,2	961-100
287-106	100	1	Clip	225	330	12,2	961-100
287-108	500	5	Clip	225	330	12,2	961-100
287-110	1000	10	Clip	225	330	12,2	961-100

 <p>Adjusting program (CAL) For quick setting of the instrument's accuracy. External adjusting weight required</p>	 <p>Bluetooth* data interface To transfer data from the balance/measuring instrument to a printer, PC or other peripherals</p>	 <p>Measuring units Weighing units can be switched to e.g. non-metric. Please refer to website for more details</p>	 <p>Conformity assessment Models with type approval for construction of verifiable systems</p>
 <p>Calibration block Standard for adjusting or correcting the measuring device</p>	 <p>WIFI data interface To transfer data from the balance/measuring instrument to a printer, PC or other peripherals</p>	 <p>Measuring with tolerance range (limit-setting function) Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the relevant model</p>	 <p>DAkkS calibration possible The time required for DAkkS calibration is shown in days in the pictogram</p>
 <p>Peak hold function Capturing a peak value within a measuring process</p>	 <p>Data interface infrared To transfer data from the measuring instrument to a printer, PC or other peripheral devices</p>	 <p>Protection against dust and water splashes IPxx The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989 +A1:1999+A2:2013</p>	 <p>Factory calibration (ISO) The time required for factory calibration is specified in the pictogram</p>
 <p>Scan mode Continuous capture and display of measurements</p>	 <p>Control outputs (optocoupler, digital I/O) To connect relays, signal lamps, valves, etc.</p>	 <p>ZERO Resets the display to "0"</p>	 <p>Package shipment The time required for internal shipping preparations is shown in days in the pictogram</p>
 <p>Push and Pull The measuring device can capture tension and compression forces</p>	 <p>Analogue interface To connect a suitable peripheral device for analogue processing of the measurements</p>	 <p>Battery operation Ready for battery operation. The battery type is specified for each device</p>	 <p>Pallet shipment The time required for internal shipping preparations is shown in days in the pictogram</p>
 <p>Length measurement Captures the geometric dimensions of a test object or the movement during a test process</p>	 <p>Analogue output For output of an electrical signal depending on the load (e.g. voltage 0 V - 10 V or current 4 mA - 20 mA)</p>	 <p>Rechargeable battery pack Rechargeable set</p>	
 <p>Focus function Increases the measuring accuracy of a device within a defined measuring range</p>	 <p>Statistics Using the saved values, the device calculates statistical data, such as average value, standard deviation etc.</p>	 <p>Plug-in power supply 230V/50Hz in standard version for EU. On request GB, AUS or US version available</p>	
 <p>Internal memory To save measurements in the device memory</p>	 <p>PC Software To transfer the measurement data from the device to a PC</p>	 <p>Integrated power supply unit Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or US on request</p>	
 <p>Data interface RS-232 Bidirectional, for connection of printer and PC</p>	 <p>Printer A printer can be connected to the device to print out the measurement data</p>	 <p>Motorised drive The mechanical movement is carried out by an electric motor</p>	
 <p>Profibus For transmitting data, e.g. between scales, measuring cells, controllers and peripheral devices over long distances. Suitable for safe, fast, fault-tolerant data transmission. Less susceptible to magnetic interference</p>	 <p>Network interface For connecting the scale/measuring instrument to an Ethernet network</p>	 <p>Motorised drive The mechanical movement is carried out by a synchronous motor (stepper)</p>	
 <p>Profinet Enables efficient data exchange between decentralised peripheral devices (balances, measuring cells, measuring instruments etc.) and a control unit (controller). Especially advantageous when exchanging complex measured values, device, diagnostic and process information. Savings potential through shorter commissioning times and device integration possible</p>	 <p>KERN Communication Protocol (KCP) It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems</p>	 <p>Fast-Move The total length of travel can be covered by a single lever movement</p>	
 <p>Data interface USB To connect the measuring instrument to a printer, PC or other peripheral devices</p>	 <p>GLP/ISO record keeping of measurement data with date, time and serial number. Only with SAUTER printers</p>		

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